(19) World Intellectual Property Organization

International Bureau



Í DER BRITTER I BERLIR HERR BRITT BRITT

(43) International Publication Date 10 February 2005 (10.02.2005)

PCT

(10) International Publication Number WO 2005/012260 A3

(51) International Patent Classification⁷: C07D 215/22, 215/14, C07C 255/60, 233/15

(21) International Application Number:

PCT/GB2004/003141

(22) International Filing Date: 20 Ju

20 July 2004 (20.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0317631.0

28 July 2003 (28.07.2003) GF

(71) Applicant (for all designated States except US): BTG INTERNATIONAL LIMITED [GB/GB]; 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): GODFREY, Andrew, Aydon [GB/GB]; PDD F1, AstraZeneca Pharmaceuticals, Silk Road Business Park, Macclesfield SK10 4TG (GB).
- (74) Agent: C D ENGLAND; BTG International Limited, 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

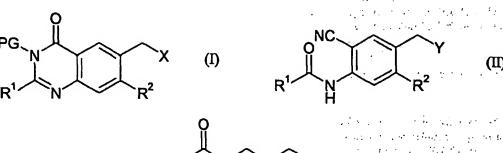
— with international search report.

1,

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 7 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC METHOD FOR THE PREPARATION OF QUINAZOLIN-4-ONE DERIVATIVE



$$R^1$$
 N R^2 (III)

(57) Abstract: A quinazolin-4-one derivative of formula (I), may be made by a process including the step of cyclization an amide of formula (II), to form a quinazolin-4-one derivative of formula (III).

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 10 February 2005 (10.02.2005)

PCT

(10) International Publication Number WO 2005/012260 A2

(51) International Patent Classification⁷:

(21) International Application Number:

PCT/GB2004/003141

C07D 239/00

(22) International Filing Date: 20 July 20

20 July 2004 (20.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0317631.0

28 July 2003 (28.07.2003) GI

- (71) Applicant (for all designated States except US): BTG INTERNATIONAL LIMITED [GB/GB]; 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): GODFREY, Andrew, Aydon [GB/GB]; PDD F1, AstraZeneca Pharmaceuticals, Silk Road Business Park, Macclesfield SK10 4TG (GB).
- (74) Agent: C D ENGLAND; BTG International Limited, 10 Fleet Place, Limeburner Lane, London EC4M 7SB (GB).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC METHOD

$$PG$$
 R^1
 N
 R^2

(II)

$$\begin{array}{c|c}
HN & Y \\
R^1 & N & R^2
\end{array}$$
(III)

(57) Abstract: A quinazolin-4-one derivative of formula (I), may be made by a process including the step of cyclization an amide of formula (II), to form a quinazolin-4-one derivative of formula (III).

(I)